Please amend the claims as follows:

- 1-37 (canceled)
- --38. (currently amended) A process for preparing an amyloid fibril, which process comprises:

preparing a solution comprising a protein, said solution being in a state so that nucleation and fibril growth will occur over an acceptable time, and

allowing nucleation and fibril growth to take place; wherein a non-naturally occurring amyloid fibril is prepared by said process.

- 39. (original) A process according to claim 38 wherein the solution further comprises an alcohol.
- 40. (original) A process according to claim 38 wherein the solution further comprises alcohol selected from methanol, ethanol, propanol, butanol, trifluoroethanol and hexafluoroisopropanol.
- 41. (original) A process according to claim 38 wherein the solution further comprises acetonitrile.
- 42. (original) A process according to claim 38 wherein the solution further comprises urea.
- 43. (original) A process according to claim 38 wherein the concentration of protein in the solution is from 0.1 mM to $10\ \mathrm{mM}$.
- 44. (original) A process according to claim 38 wherein the temperature of the solution is from 0°C to 100°C .
- 45. (original) A process according to claim 38 wherein the solution is acidic.
- 46. (original) A process according to claim 38 wherein the pH of the solution is from 0.5 to 6.5.
- 47. (original) A process according to claim 38 wherein the solution is seeded with previously formed particles of protein.

- 48. (original) A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises a pharmaceutically active compound.
- 49. (original) A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises a metal.
- 50. (original) A process according to claim 49 wherein the metal is selected from the group consisting of copper, silver and gold.

51-53 (canceled)

- 54. (new) A process according to claim 38, wherein said solution is treated to denature or partially denature the protein.
- 55. (new) A process according to claim 54, wherein said denaturing is effected by treatment with an alcohol, aliphatic nitrile or urea, reducing the pH, or by shaking, agitation or exposure to a glass or plastic surface.
- 56. (new) A process according to claim 38, wherein the solution further comprises an alcohol at 5 to 40% v/v.
- 57. (new) A process according to claim 38, wherein the solution further comprises an aliphatic nitrile at 5 to 95% v/v.
- $58. \ (\text{new})$ A process according to claim 38, wherein the solution further comprises urea at 4 to 7~M.
- 59. (new) A process according to claim 38, wherein nucleation is achieved by varying the pH and/or ionic strength of the solution.
- 60. (new) A process for preparing an amyloid fibril, which process comprises:

preparing a solution comprising a protein, said solution being in a state so that nucleation and fibril growth will occur, wherein the pH of the solution is from 0.5 to 6.5, the temperature of the solution is from 0°C to 100°C, and wherein the solution optionally also comprises an additive selected

from the group consisting of an alcohol at 5 to 40% v/v, an aliphatic nitrile at 5 to 95% v/v and urea at 4 to 7 M; and allowing nucleation and fibril growth to take place; wherein a non-naturally occurring amyloid fibril is prepared by said process.